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## CERATOPETALUM gummiferum.

## Three-leaved Red-gum Tree.

## DECANDRIA Monogynia.

Gen. Char. Cal. .5-partitus, faminiferus, perdiftens. Petala 5, pinnatificla. Antbera calcaratie. Capf. in fundo calycis, tecta,-bilocularis.
Cal. 5 -cleft, bearing the ftamina, permanent. Petals 5, pinnatifid. Antberce with a fpur. Caff. in the bottom of the calyx, covered, two-celled.

WHEN a botanift firft enters on the inveftigation of fo remote a country as New Holland, he finds himfelf as it were in a new world. He can farcely meet with any certain fixed points from whence to draw his analogies; and even thofe that appear moft promifing, are frequently in danger of mifleading, inftead of informing him. Whole tribes of plants, which at firit fight feem familiar to his acquaintance, as occupying links in Nature's chain, on which he has been accuftomed to de-
pend, prove, on a nearer examination, total ftrangers, with other configurations, other œconomy, and other qualities ; $\quad$ not only all the fpecies that prefent themfelves are new, but moft of the genera, and even natural orders.

The plant before us juftifies the above remarks. Its botanical characters are fo new, we can fcarcely tell to what tribes it is allied; and although, from the peculiar felicity of the Linnæan fexual fyitem, founded on parts which every plant muft have, we are at no lofs to find its clafs and order in that which is an artificial fyftem, we ftill fcarcely know what genera are its natural allies. It, however, feems moft nearly related to Dictamnus and Ruta, of all the Decandria Monogynia, and may be fafely inferted near them. We dare not pofitively fay it belongs to M. De Juffieu's natural order of Rutacea, but for the prefent it may be fo confidered, till future difcoveries fhall authorife us to conftitute a new one. ${ }^{\text {T }}$ The generic character above given certainly diftinguifhes it from all other genera, and the name applies to the very unufual horn-like divifions of the petals, like thofe in the leaves of the Ceratophyllum of Linnæus. One fpecies only is already known.

This, Mr. White informs us, is one of the trees (for there are feveral, it feems, befides the Eucalyptus refinifera, mentioned in his Voyage, p. 23x.) which produce the red gum. He further remarks, that it is the only wood of the country that will fwim in water.

The tree is of a confiderable height, upright, much branched, and of a beautiful appearance when the flowers are come to maturity, or rather about perfecting their feed, as in the fpecimen here figured. Every part is quite fmooth. Branches oppofite, round, flightly angular at the top. Leaves oppofite, on footftalks, ternate. Leaflets feffile, nearly equal, lanceolate, obtufe, ferrated, veiny, fhining, paler beneath. Stipulce none. Panicles terminal, firf oppofitely, and then alternately branched, with a fmall pointed glutinous bractea at the bafe of each partial flower-ftalk. Flowers at firft expanding fmall, but the calyx afterwards becomes much enlarged, whitifh, tinged with red, and all their parts continue permanent till the fruit is ripe. The Calyx is inferior, five-cleft; its fegments lanceolate, acute, flightly ribbed; its margin at the bafe of the fegments furrounded with a ring bearing the petals and ftamina, as in icofandrous plants. Petals alternate with its fegments, at firft equal to them in length, then much fhorter, irregularly and unequally pinnatifid ; their divifions linear and acute. Stamina fhorter than the petals, awl-fhaped. Antberce roundifh, of two oval cells, and with a fpur at their bafe. Germen in the bottom of the calyx, globular, ten-ribbed. Style awl-fhaped, fhort. Stigma cloven, acute. Catfule in form like the germen, fmall, with a coriaceous covering, originally two-celled, but one fide feems always abortive, and the feed in the other purhes the partition from the centre.

We have only feen the fruit half ripe, and the imperfect feeds were withered, but they appear to be folitary.
EXPLANATION OF TAB. III.
I. A bunch of young flowers, of their natural fize.
2. The more advanced calyx laid open, with its petals and Itamina in their proper fituations.
3. A petal and ftamen feparate.
4. The fame magnified.
5. Back of the filament and anthera.
6. Germen in a young ftate.
7. Its coriaceous covering.
8. Stigma.
9. Germen fomewhat farther advanced, cut acrofs to fhew the cells.

